

ABSTRACT OF THE DISCLOSURE

A III-V group nitride system semiconductor substrate has III-V group nitride system single crystal grown on a 5 hetero-substrate. The III-V group nitride system semiconductor substrate has a flat surface and satisfies the relationship of $\theta > \alpha$, where θ [deg] is given as an average in angles of the substrate surface to low index surfaces closest to the substrate surface measured at a plurality of arbitrary 10 points in plane of the substrate, and a variation range of the measured angles to θ is represented by $\pm \alpha$ [deg].